Abstract

Robust controllers designed via $H\infty$ Loop Shaping are complicated and are of order higher than that of the plant. It is very difficult to implement these controllers in practical engineering applications. To overcome this problem, Genetic Algorithm is used to approximate a robust PID controller from $H\infty$ Loop Shaping controller so that the difficulties in implementation of higher order controller can be avoided.

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Application of Genetic Algorithm for Tuning of Reduced Ordered Robust PID Controller

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